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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/757,159

01/14/2004

Barry N. Gellman

BSC-124DI

3539

2774 7590 02/08/2007
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EXAMINER

SCHELL, LAURA C

ART UNIT

PAPER NUMBER

3767

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

02/08/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/757,159

Applicant(s)

GELLMAN, BARRY N.

Examiner

Laura C. Schell

Art Unit

3767

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-20,22 and 23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 11-20,22 and 23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 1/30/06.

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Information Disclosure Statement

The four foreign patent documents listed on the submitted IDS have not been considered as copies of these documents have not been submitted to be included in the application file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11, 12 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Hicks (US Patent No. 2,825,134). Hicks discloses a driving system (Fig. 1, portion to the right of line 4) for use with an injector system, the injector system comprising a tubular member (10) and a mixing member (24) extending through the tubular member, the driving system comprising: a drive mechanism (34); an actuator (30) coupled to the drive mechanism to actuate the drive mechanism; and a rotatable interfacing member (21) coupled to the drive mechanism for coupling with the mixing member to rotate the mixing member when the interfacing member is driven by the drive mechanism (21 couples the drive mechanism (34) to the mixing member (24) and the interfacing member (21) rotates which thus causes the mixing member (24) to rotate as well).

In reference to claim 12, Hicks discloses that the drive mechanism comprises a motor (col. 3, lines 39-40).

In reference to claim 17, Hicks discloses that the driving system is capable of coupling to an injector system (couples at 16), the injector system comprising a tubular member (10) and a mixing member (24) extending through the tubular member.

Claim 18 rejected under 35 U.S.C. 102(b) as being anticipated by Hicks (US Patent No. 2,825,134). Hicks discloses a coupling system (Fig. 1) for use with a tube of a syringe (10), comprising: a housing (16) for coupling to the tube of the syringe; a drive mechanism disposed within the housing (34); a mixing member (24) for coupling to the drive mechanism, the mixing member for extending into the tube of the syringe and being rotatable within the tube of the syringe to mix and deliver an injectable from the tube of the syringe; and an actuator (30) coupled to the drive mechanism to actuate the drive mechanism and thereby cause rotation of the mixing member (21 couples the drive mechanism (34) to the mixing member (24) and the interfacing member (21) rotates which thus causes the mixing member (24) to rotate as well).

In reference to claim 19, Hicks discloses that the mixing member (24) is coupled to the drive mechanism (coupled to each other via interfacing member 21).

In reference to claim 20, Hicks discloses that the housing further comprises a mating portion (at 16), the mating portion being capable of mating with the tube of the syringe.

In reference to claim 22, Hicks discloses that the tube of the syringe comprises an injectable material (col. 3, lines 39-43).

In reference to claim 23, Hicks discloses that the housing comprises finger grips (40).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hicks (US Patent No. 2,825,134) in view of Critchlow et al. (US 2003/0171712). Hicks discloses the device substantially as claimed including a motor (col. 3, lines 39-40). Hicks, however, does not disclose a low torque motor, a battery or a switch. Critchlow, however, discloses a hand-held syringe (Fig. 9) with a high speed, low torque motor (paragraph [0053]), that the motor is coupled to a battery as an energy source (paragraph [0046]) and that the actuator comprises a switch (paragraph [0128]).

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Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hicks with the specific motor, energy source and switch, as taught by Critchlow, in order to provide an injector system that is powerful enough to mix and inject such viscous material, as well as be hand-held and portable.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura C. Schell whose telephone number is (571) 272-7881. The examiner can normally be reached on Monday-Friday 9am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on (571) 272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



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